Index of Claims

| Application No. | Applicant(s) |
|-----------------|--------------|
| 10/614,999      | ENGLE ET AL. |
| Examiner        | Art Unit     |

√ Rejected —

= Allowed ÷

(Through numeral)
 Cancelled
 Restricted

Non-Elected
I Interference

Stephen J Kenny

A Appeal
O Objected

3726

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|  |  | <del>-</del>   |          |              |  | - · ·         |          |          |  | _               |
| Cla  | ıım.   | <u> </u>       | _        |              | _ L  | Date          | =        |          |  | ᅴ               |
| Final  | Original   | 7/20/04        |          |              |  |               |          |          |  |                 |
| 1  | 1  | =              |          | -            |  | _             | $\vdash$ | _        |  | $\vdash \vdash$ |
| 2  | 2  | =              | _        | <del> </del> | ┢  | _             | ┢        |          | _  | H               |
| 3  | 3  | =              | $\vdash$ | _            | $\vdash$   | _             | $\vdash$ | _        | _  | Н               |
| 1  | 4  | =              | -        | _            | -  |               | -        | -        | _  | Н               |
| 5  | 5  | =              | -        |              |  | -             |          |          | _  | H               |
| 2<br>3<br>4<br>5<br>6<br>7                       | 1<br>2<br>3<br>4<br>5<br>6   | =              | $\vdash$ | $\vdash$     |  | _             | $\vdash$ |          | _  | H               |
| 7  | 7  | =              | $\vdash$ |              |  |               | _        |          |  | Н               |
| 8  | 8  | =              |          |              |  |               | Н        |          |  | Н               |
| 9  | 9  | =              |          |              |  | $\overline{}$ |          |          |  | П               |
| 8<br>9<br>10                                     | 10   | =              |          | -            |  |               |          |          |  | Н               |
| 11   | 11   | =              |          |              |  | _             |          |          |  | П               |
| 12   | 12   | =              |          |              |  |               |          |          |  | П               |
| 11<br>12<br>13                                   | 13   | =              | Г        | Г            |  | _             | П        |          |  | $\square$       |
| 14   | 14   | =              |          |              |  |               |          |          |  |                 |
|  | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24 |                |          |              |  |               |          |          |  |                 |
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|  | 20   |                |          |              |  |               |          |          |  |                 |
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|  | 22   |                |          |              |  |               |          |          |  |                 |
|  | 23   |                |          |              |  |               |          |          |  |                 |
|  | 24   |                | _        |              |  |               | _        |          |  | Ш               |
|  | 25<br>26<br>27<br>28<br>29<br>30<br>31<br>32   |                |          |              |  |               | 匚        |          |  | Щ               |
|  | 26   |                | L.       |              |  |               | <u> </u> |          | _  | Ш               |
|  | 27   | _              | _        | L            |  |               |          |          |  | Щ               |
|  | 28   | _              | _        | _            | _  | _             | _        |          | _  | Ш               |
|  | 29   |                | _        |              |  |               |          |          |  | Щ               |
|  | 30   |                | <u> </u> |              |  |               | _        | <u> </u> |  | Ш               |
|  | 31   | _              |          | _            | _  |               | _        | _        | _  | Н               |
|  | 32   |                | _        | -            |  | _             |          |          |  | Н               |
|  | 33<br>34   | $\vdash$       | <u> </u> | $\vdash$     | $\vdash$   | -             | $\vdash$ | <u> </u> | -  | $\vdash$        |
| <u> </u>   | 35   | $\vdash$       | <u> </u> | ⊢            | -  | _             | ├        | <u> </u> |  | Н               |
|  | 35   | ├              | -        | ├-           |  | <del> </del>  | $\vdash$ | $\vdash$ | <u> </u>   | Н               |
| <u> </u>   | 36<br>37   | $\vdash$       | ┝        | ⊢            | <del>                                     </del> | <u> </u>      | $\vdash$ | <u> </u> | <u> </u>   | $\vdash\vdash$  |
| <del>                                     </del> | 38   | <del> </del> — | ⊢        | $\vdash$     | $\vdash$   | $\vdash$      | $\vdash$ | $\vdash$ |  | H               |
| <u> </u>   | 38<br>39   | $\vdash$       | $\vdash$ | $\vdash$     | $\vdash$   | -             | $\vdash$ |          | -  | $\vdash \vdash$ |
|  | 40   | $\vdash$       |          | $\vdash$     | -  | $\vdash$      | $\vdash$ |          | -  | H               |
|  | 41   | $\vdash$       | $\vdash$ | $\vdash$     | $\vdash$   |               | $\vdash$ | <u> </u> | <del>                                     </del> | H               |
|  | 42   | $\vdash$       |          |              |  | $\vdash$      | $\vdash$ | $\vdash$ |  | H               |
| <b></b>  | 43   | $\vdash$       | Ι        | $\vdash$     |  |               | $\vdash$ |          | $\vdash$   | Н               |
|  | 44   | ┪              | <u> </u> | _            | T  |               | t        | <u> </u> | Г  | Н               |
|  | 45   | Т              | Т        | $\vdash$     | Г  |               |          |          | Г  | $\vdash$        |
|  | 46   | Т              | _        | Т            | Τ.   | _             |          |          |  | М               |
|  | 47   |                | Г        | <u> </u>     |  |               | $\vdash$ |          |  | П               |
| $\Box$   | 48   | Г              | Г        | Г            | Γ  |               | Г        | <u> </u> | Γ  | П               |
|  | 49   |                |          |              | Г  | Г             |          |          | Г  |                 |
|  | 50   |                |          |              |  |               |          |          |  |                 |
|  |  |                |          |              | _  |               | _        |          |  | _               |

| E         E | Claim    |     |   |     | Date | <del></del> |   |        |  |
|---|----------|-----|---|-----|------|-------------|---|--------|--|
| 51       52         53       54         55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         84       85         86       87         88       89         90       91         92       93         94       95         96       97         98       99   |          |     |   | ļ . |      |             |   |        |  |
| 51       52         53       54         55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         84       85         86       87         88       89         90       91         92       93         94       95         96       97         98       99   | <u>a</u> | ing |   |     |      |             |   |        |  |
| 51       52         53       54         55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         84       85         86       87         88       89         90       91         92       93         94       95         96       97         98       99   | <u>i</u> | rig |   |     |      |             |   |        |  |
| 55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           85         86           87         88           89         90           91         92           93         94           95         96           97         98           99  |          | 0   |   |     |      |             |   |        |  |
| 55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           85         86           87         88           89         90           91         92           93         94           95         96           97         98           99  |          | 51  |   |     |      |             |   |        |  |
| 55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           85         86           87         88           89         90           91         92           93         94           95         96           97         98           99  |          | 52  |   |     |      |             |   |        |  |
| 55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           85         86           87         88           89         90           91         92           93         94           95         96           97         98           99  |          | 53  |   |     |      |             |   |        |  |
| 55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           85         86           87         88           89         90           91         92           93         94           95         96           97         98           99  |          | 54  |   |     |      |             |   |        |  |
| 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96         97       98         99       99   |          | 55  |   |     |      |             |   |        |  |
| 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96         97       98         99       99   |          | 56  |   |     |      | П           |   |        |  |
| 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96         97       98         99       99   |          | 57  |   |     |      |             |   |        |  |
| 60 61 61 62 63 64 65 66 66 67 67 68 68 69 70 70 71 71 72 73 74 75 76 76 77 78 78 79 80 81 81 82 83 84 85 86 87 88 89 90 90 91 91 92 93 93 99 99 99 99 99 99 99 99 99 99 99  |          | 58  |   |     |      |             |   |        |  |
| 60 61 61 62 63 64 65 66 66 67 67 68 68 69 70 70 71 71 72 73 74 75 76 76 77 78 78 79 80 81 81 82 83 84 85 86 87 88 89 90 90 91 91 92 93 93 99 99 99 99 99 99 99 99 99 99 99  |          | 59  |   |     |      |             |   |        |  |
| 61  |          | 60  |   |     |      |             |   |        |  |
| 63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99  |          | 61  |   |     |      |             |   |        |  |
| 63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99  |          | 62  |   |     |      |             |   |        |  |
| 64   65   66   67   68   69   70   71   72   73   74   75   75   76   77   78   79   80   81   82   83   84   85   86   87   88   89   90   91   92   93   94   95   96   97   98   99   99   99   99   99   99   |          | 63  |   |     |      |             |   |        |  |
| 66 67 68 68 69 70 70 71 72 72 73 74 74 75 75 76 76 77 78 78 79 80 80 81 82 83 83 84 85 86 87 88 89 90 90 91 91 92 93 93 94 99 99 99 99 99 99 99 99 99 99 99 99  |          | 64  |   |     |      |             |   |        |  |
| 66 67 68 68 69 70 70 71 72 72 73 74 74 75 75 76 76 77 78 78 79 80 80 81 82 83 83 84 85 86 87 88 89 90 90 91 91 92 93 93 94 99 99 99 99 99 99 99 99 99 99 99 99  |          | 65  |   |     |      |             |   |        |  |
| 69  |          | 66  |   |     |      |             |   |        |  |
| 69  |          | 67  |   |     |      |             |   |        |  |
| 69  |          | 68  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 69  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 70  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 71  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 72  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 73  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 74  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 75  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 76  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 77  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 78  |   |     |      |             |   |        |  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 79  |   |     |      |             |   |        |  |
| 82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98  |          | 80  |   |     |      |             |   |        |  |
| 82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98  |          | 81  |   |     |      |             |   |        |  |
| 83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 82  |   |     |      |             |   |        |  |
| 85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 83  |   |     |      |             |   |        |  |
| 85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98  |          | 84  |   |     |      |             |   |        |  |
| 86 87 88 88 89 90 90 91 91 92 93 94 95 96 97 98 99 99   |          | 85  |   |     |      |             |   |        |  |
| 87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>94<br>95<br>96<br>97<br>98  |          | 86  |   |     |      |             |   |        |  |
| 90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99  |          | 87  |   |     |      |             |   |        |  |
| 90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99  |          | 88  |   |     |      |             | _ |        |  |
| 91 92 93 93 94 95 96 97 98 99 99  |          | 89  |   | 匚   |      |             |   | $\Box$ |  |
| 92<br>93<br>94<br>95<br>96<br>97<br>98<br>99  |          | 90  |   | 匚   |      |             |   |        |  |
| 93<br>94<br>95<br>96<br>97<br>98<br>99  |          |     |   |     |      |             |   |        |  |
| 94 95 96 97 98 99 99  |          | 92  |   |     |      |             |   |        |  |
| 95 96 97 98 99 99 99  |          | 93  |   | 匚   |      |             |   |        |  |
| 96 97 98 99 99 99 99 99 99 99 99 99 99 99 99  |          | 94  |   | L   |      |             |   | L      |  |
| 97<br>98<br>99  |          | 95  |   | L   |      |             |   |        |  |
| 98 99   |          | 96  |   | 匚   |      | 匚           |   |        |  |
| 99  |          |     |   |     |      |             |   |        |  |
| 99  |          |     | L |     |      |             |   |        |  |
|   |          | 99  |   |     |      |             |   |        |  |
| 100   |          | 100 |   |     |      |             |   |        |  |

|          |  | L.           |               |          |                                     |          |          |          |              |                 |
|----------|--|--------------|---------------|----------|-------------------------------------|----------|----------|----------|--------------|-----------------|
|          |  |              |               |          |                                     |          |          |          |              |                 |
| Cli      |  |              |               |          | Date                                | 9 .      |          |          |              |                 |
|          | Original                               |              |               |          |                                     |          |          |          |              |                 |
| Final    |  |              |               |          |                                     |          |          |          |              |                 |
|          | 101                                    |              |               |          |                                     |          |          |          |              | Ш               |
|          | 102                                    | _            |               |          |                                     |          |          |          | _            |                 |
|          | 103                                    |              |               |          |                                     |          | _        |          | _            | _               |
|          | 104<br>105                             |              | Ш             |          |                                     |          |          |          |              | -               |
|          | 105                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 106                                    |              | $\vdash$      |          |                                     | _        |          |          |              | -               |
|          | 107<br>108                             |              | H             |          |                                     |          |          | _        |              | -               |
|          | 109                                    | _            | $\vdash$      |          | _                                   | -        | _        |          | _            | -               |
|          | 110                                    |              | -             | -        |                                     | -        |          | _        | _            | $\dashv$        |
|          | 110<br>111                             | -            | -             |          |                                     |          |          |          |              |                 |
|          | 112                                    |              | $\vdash$      | -        | Н                                   |          | -        |          |              | Н               |
|          | 113                                    |              | Г             |          |                                     |          | $\vdash$ |          |              | $\vdash$        |
|          | 113<br>114                             |              | П             | П        | П                                   | П        |          |          |              | $\Box$          |
|          | 115                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 116                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 117                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 118<br>119                             |              |               |          |                                     |          |          |          |              |                 |
|          | 119                                    | 匚            |               | L        |                                     |          |          |          |              | Ш               |
|          | 120                                    |              |               |          |                                     |          |          |          |              | Щ               |
|          | 121<br>122                             | _            |               |          |                                     |          |          | _        |              | _               |
|          | 122                                    | _            |               | _        | _                                   | _        | <u> </u> | _        |              | Ш               |
| <u> </u> | 123                                    | _            | <u> </u>      | <u> </u> | _                                   | ·        | _        |          |              | $\dashv$        |
| <u> </u> | 123<br>124<br>125<br>126<br>127<br>128 | -            | H             |          |                                     |          | _        |          | _            | $\dashv$        |
| -        | 125                                    | -            | <u> </u>      | ┝        |                                     |          |          |          | -            | $\dashv$        |
| <u> </u> | 127                                    |              |               | $\vdash$ |                                     |          | -        | _        |              | $\vdash$        |
|          | 128                                    | $\vdash$     | $\vdash$      | $\vdash$ | _                                   | _        | _        | _        |              |                 |
|          | 129                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 129<br>130                             |              |               |          |                                     |          |          |          |              |                 |
|          | 131                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 132<br>133                             | L_           |               |          | _                                   |          |          |          |              | Щ               |
| <u> </u> | 133                                    | L.           | L             |          |                                     |          |          |          |              |                 |
|          | 134<br>135                             | <u> </u>     | <u> </u>      | <u> </u> | <u> </u>                            | _        |          | _        |              | $\vdash$        |
| <u> </u> | 135                                    | <del> </del> | $\vdash$      | <u> </u> |                                     |          | <b>.</b> | H        | <u> </u>     | Н               |
| -        | 137                                    | ├            | $\vdash$      | $\vdash$ | $\vdash$                            | H        | $\vdash$ | -        | <u> </u>     | $\vdash$        |
|          | 137<br>138                             |              | $\vdash$      | $\vdash$ |                                     | $\vdash$ |          | Н        | H            | $\vdash \vdash$ |
|          | 139                                    | $\vdash$     | <u> </u>      | $\vdash$ |                                     |          | Т        | 一        | _            | Н               |
|          | 140                                    |              |               | Г        | <u> </u>                            |          |          |          |              |                 |
|          | 141                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 142                                    |              |               |          |                                     |          |          |          |              |                 |
|          | 143                                    |              | $\sqsubseteq$ | Ĺ        |                                     | $\Box$   |          |          | L            |                 |
|          | 144                                    |              |               | <u> </u> | <u> </u>                            | <u>L</u> | _        | <u> </u> | <u> </u>     | Щ               |
|          | 145                                    | _            | <u> </u>      |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> | L        |          | <u> </u>     | Ш               |
|          | 146                                    | <u> </u>     | $\vdash$      | $\vdash$ | $\vdash$                            | <u> </u> | <u> </u> | <u> </u> | <del> </del> | $\vdash \vdash$ |
|          | 147                                    | $\vdash$     | $\vdash$      | <u> </u> | <u> </u>                            | <u> </u> | ļ        | <u> </u> | <u> </u>     | Н               |
|          | 148                                    | <u> </u>     | $\vdash$      | -        | -                                   |          |          | <u> </u> | ⊢            | $\vdash$        |
| -        | 149<br>150                             | $\vdash$     | -             | $\vdash$ |                                     | $\vdash$ | $\vdash$ | ├—       | $\vdash$     | Н               |
| L        | 1100                                   |              | Ц.            |          | L                                   | L        |          |          | <u> </u>     | ш.              |